

# COONEY DAM

## Fact Sheet

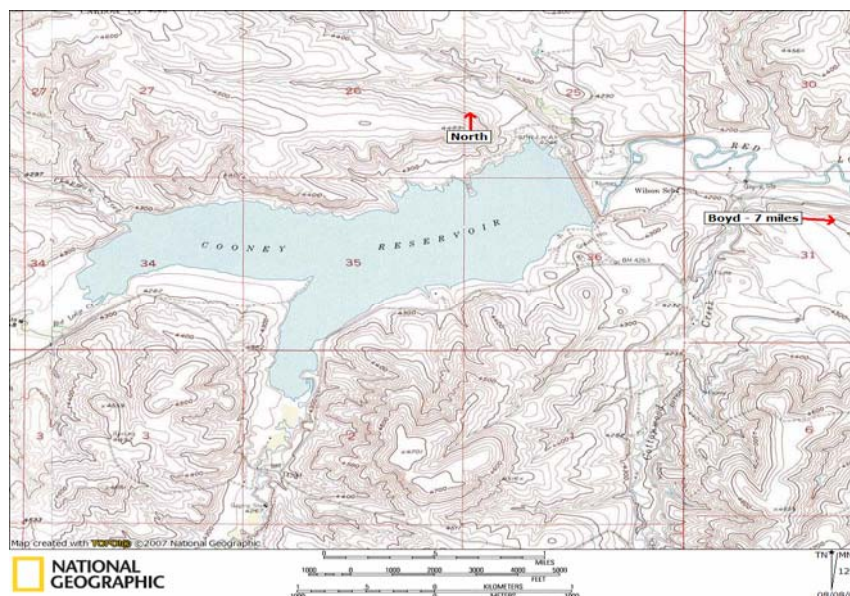
### PROJECT DESCRIPTION

- ◆ Impoundment on Red Lodge Creek; also obtains water from Willow Creek and Glacier Lake Reservoir.
- ◆ Located approximately 8 miles west of Boyd in Carbon County.
- ◆ Owned by DNRC & managed by SWPB
- ◆ Operated by the Rock Creek Water Users Association since 1937
- ◆ Project consists of:
  - ◆ Earthfill Dam, 102 feet high, 2,369 feet long
  - ◆ Controlled, ogee crest principle spillway with concrete drop structure in left abutment; fuse plug emergency spillway.
  - ◆ 6-foot horseshoe-shaped 630 foot-long concrete outlet, with two 60-inch diameter gate valves (butterfly operating gate and emergency slide gate), in series.
- ◆ Original construction completed in 1937
- ◆ Stores 28,230 acre-feet at guard dike crest; surface area at normal full pool – 1,078 acres
- ◆ Provides irrigation water on approximately 20,000 acres; popular recreation site, with Cooney State Park, managed under lease by the MT Dept. of Fish, Wildlife and Parks, encompassing the north, east and south shore of the reservoir.
- ◆ The dam is a “high hazard” structure, which means that its failure could cause loss of life. Farms and ranches, roads, bridges, and utilities are located in the flood plain. The towns of Boyd and Joliet are immediately downstream.

### PROJECT DEFICIENCIES AND REHABILITATION

In 1982 the dam was raised 5-feet and rehabilitated. The dam, spillways and outlet works are in good condition and meet or exceed existing dam safety standards. The rehabilitation included:

- ◆ Raising the dam embankment 5-feet.
- ◆ Replacing the principle spillway
- ◆ Adding a guard dike in the spillway approach channel
- ◆ Adding a fuse plug emergency spillway
- ◆ Replacing the wooden bridge over the principle spillway with a concrete bridge
- ◆ Installing additional drains
- ◆ rehabilitation cost (1982): \$1,288,065



## PROJECT PHOTOGRAPHS



**Upstream Face**



**Spillway**



**Downstream Face**